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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/662,531 09/15/2000 Kannan Varadhan Porta 46-16-7-4-6 1919 22046 7590 07/20/2004 **EXAMINER** LUCENT TECHNOLOGIES INC. STEVENS, ROBERTA A **DOCKET ADMINISTRATOR** ART UNIT PAPER NUMBER 101 CRAWFORDS CORNER ROAD - ROOM 3J-219 HOLMDEL, NJ 07733 2665

DATE MAILED: 07/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)
	09/662,531	VARADHAN ET AL.
	Examiner	Art Unit
	Roberta A Stevens	2665
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1) Responsive to communication(s) filed on 23 April 2004.		
	nis action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4) ☐ Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-14 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and	rawn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Examiner.		
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a line	nts have been received. nts have been received in App iority documents have been re eau (PCT Rule 17.2(a)).	lication No ceived in this National Stage
Attachment(s)	<b></b> □	(070.440)
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 6, 7.</li> </ol>		nmary (PTO-413) //ail Date rmal Patent Application (PTO-152)

Art Unit: 2665

#### Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue (U.S. 6587882) in view of Bhagwat (U.S. 6651105).
- 4. Regarding claim 1, Inoue teaches (figure 1) a method for configuring a portable and/or mobile host that powers up in a foreign network to connect to the internet, comprising: using the M-IP protocol to contact the M-IP home agent and request the bootstrapping agent to allocate the temporary home address to the host:

Art Unit: 2665

5. Inoue does not teach creating a bootstrapping agent that works cooperatively with a M-IP home agent to allocate a temporary home address to the host; and using the temporary home address to create a temporary tunnel between a foreign agent associated with the host and the M-IP home agent, wherein the temporary tunnel is used to communicate configuration information including a permanent home address allocated by the DHCP protocol for the host to connect to the internet.

- 6. Bhagwat teaches (col. 2, lines 3856) creating a bootstrapping agent that works cooperatively with a M-IP home agent to allocate a temporary home address to the host; and using the temporary home address to create a temporary tunnel between a foreign agent associated with the host and the M-IP home agent, wherein the temporary tunnel is used to communicate configuration information including a permanent home address allocated by the DHCP protocol for the host to connect to the internet. It would have been obvious to one of ordinary skill in the art to adapt to Inoue's system Bhagwat's concept of using a temporary IP address when a mobile is roaming so that the packets destined for the mobile are directly sent to the foreign agent instead eliminating them being forwarded by the home agent.
- 7. Regarding claim 2, Inoue teaches (figure 1) the foreign agent is co-located with the host.
- 8. Regarding claim 3, Inoue teaches (figure 1) the foreign agent is located on a device that is external to the host and resides in the foreign network

Art Unit: 2665

- 9. Regarding claim 4, Inoue (figure 6) teaches the bootstrapping agent is arranged to assign IP addresses from an address pool of private addresses.
- 10. Regarding claim 5, as for the private address taking the form 10\*, this is a well known format of address in private network's and It would have been obvious to one of ordinary skill in the art to adapt to Inoue and Bhagwat's system as it is well known in the art.
- 11. Regarding claim 6, Inoue (figure 6) the bootstrapping agent is arranged to assign IP addresses from an address pool of public address.
- 12. Regarding claim 7, Bhagwat teaches (col. 2) a DHCP client located on the host is used to generate messages requesting the configuration information from a DHCP server via the temporary tunnel.
- 13. Regarding claim 8, Bhagwat teaches (col. 2) the messages generated by the DHCP client are modified at the host to have a format consistent with a DHCP relay.

### Claim Rejections - 35 USC § 102

14. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Art Unit: 2665

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 15. Claims 9-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Bhagwat.
- 16. Regarding claim 9, Bhagwat teaches (col. 2 and figures 5-6) a method for enabling a mobile host without an IP home agent to connect to the internet when powering up in a foreign network, comprising: obtaining a temporary IP home address for the host from an IP address source accessible through a mobile IP home agent; establishing a transient tunnel between the mobile IP home agent and a mobile foreign agent associated with the mobile host while the foreign network, using the temporary IP home address; acquiring via the transient tunnel, configuration parameters including a permanent IP home address from a DHCP server in the home network of the host; replacing the transient tunnel with a new tunnel between the mobile IP home agent and the mobile IP foreign agent using the permanent IP home address.
- 17. Regarding claim 10, Bhagwat teaches (col. 2 and figures 5-6) a method for enabling configuration of a portable host device that powers up in a foreign network to communicate using the internet, comprising: communicating a temporary home address to the host from bootstrapping agent operating cooperatively with a mobile IP home agent that serves the host device when it operates in the foreign network; establishing a transient bi-directional link between the ht and the mobile IP home agent using the M-IP protocol and the temporary home address; and obtaining a permanent address from a

Art Unit: 2665

DHCP server via the transient bi-directional communication link, wherein the permanent address use thereafter to configure the host to communicate with the internet.

- 18. Regarding claim 11, Bhagwat teaches (cols. 7-8) additional configuration parameters are provided to the portable host via the transient bi-directional communication link.
- 19. Regarding claim 12, Bhagwat teaches (col. 2 and figures 5-6) a method for configuring a mobile host when it powers up in a foreign network, comprising: using a M-IP protocol in the host as the signaling mechanism for reaching the home network and dynamically allocating a temporary home address; and thereafter using DHCP with the temporary home address to allocate a permanent home address and other configuration state for the host.
- 20. Regarding claim 13, Bhagwat teaches (col. 2 and figures 5-6) a method for configuring a mobile host that powers up in a foreign network, comprising: setting up a temporary IP tunnel via the M-IP protocol to connect the mobile host to is home network; using an IP broadcasting protocol over the temporary IP tunnel so that the host can discover a DHCP addressing server in its home network; and using the DHCP protocol to communicate addressing and configuration information between the addressing server and the host.

Art Unit: 2665

21. Regarding claim 14, Bhagwat teaches (col. 2 and figures 5-6) a method for configuring the mobile host when it powers up in a foreign network without an IP home agent address, comprising: obtaining a temporary IP home address for the host from an IP address source accessible through the home server; establishing a transient tunnel between the mobile IP home server and a mobile foreign server using the temporary IP home address; ; acquiring via the transient tunnel, permanent configuration parameters including a permanent IP home address from a DHCP server in the region served by the home server; replacing the transient tunnel with a new tunnel between the home server and the foreign server using the permanent IP home address.

#### Conclusion

- 22. Any inquiry concerning the communication or earlier communications from the examiner should be directed to Roberta Stevens whose telephone number is (703) 308-6607. The examiner can normally be reached on Monday through Friday from 9:00 am to 5:30 p.m.
- 23. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor can be reached on (703) 308-6602.
- 24. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 305-3900.

Art Unit: 2665

## 25. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to: (703) 872-9306

For informal draft communications, please label "PROPOSED" or "DRAFT"

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal

Drive, Arlington, VA. Sixth Floor (Receptionist).

Roberta A. Stevens

Patent Examiner

07-09-04

STEVEN NGUYEN PRIMARY EXAMINER